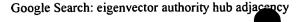
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#### **Eigenvalues Eigenvectors**

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# [PDF]A Significant Improvement to Clever Algorithm in Hyperlinked ...

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... is actually the desired "equilibrium" values for authority scores and hub scores. ... weight

distribution, then a \* is a unit **eigenvector** corresponding to a ... Description: A Kleimberg's algorithm improvement. [PDF format] Category: Computers > Software > ... > Ranking > By Context

www2002.org/CDROM/poster/171.pdf - Similar pages

# Web Page Scoring Systems for Horizontal and Vertical Search

... large highly connected communities of Web pages tend to attract the principal

 $\mathbf{eigenvector}$  of , thus ... On the other hand the  $\mathbf{hub}$  and  $\mathbf{authority}$  model can ...

Description: "Random Surfer" model extension. At each step of traversal of the Web graph, the surfer can jump to...

Category: Computers > Software > ... > Ranking > By Context

www2002.org/CDROM/refereed/629/ - 101k - Jun 26, 2003 - Cached - Similar pages

### [PDF]Summary for Authoritative Sources in a Hyperlinked Environment by ...

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... Suppose again A denotes the **adjacency** matrix. ... rank corresponds to the principle **eigenvector** of (A ... Finally, the **authority/hub** structure considered in this paper ...

www.cs.rpi.edu/~sibel/teaching/mmdb2003/ handouts/kleinberg.pdf - Similar pages

# [PDF] 1 Page Rank 2 Hubs and Aurhorities 3 Adjacency Matrix

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... performing I and O operations, and iterating: a(p): authority score ("I ... i ,(q,p) E

h(q) h(p): hub score ("O ... i \* a i converges to a (a : dominant eigenvector of A ...

www.cs.princeton.edu/courses/archive/ spring02/cs493/lec21.pdf - Similar pages

# [PS]www.cs.princeton.edu/courses/archive/spring02/cs493/lec21.ps

File Format: Adobe PostScript - View as Text

... a(p): authority score ("I" operation). a(p) = X. qi,(q,p)2E. h(q). h(p): hub score

("O" operation). h(p) = X. ... ai converges to a\* (a\*: dominant eigenvector of AT A). ...

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#### [PPT]need, behaviour, us e ( par t i )

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... of A, then cX (where c is any constant) is also an eigenvector of A. ... note: the normalization ensures that authority weights and hub weights both sum to ...

skipper.gseis.ucla.edu/faculty/ jfurner/02-03/276/276lec8.ppt - Similar pages

#### [PDF]A unifying model of document relatedness for hybrid search ...

File Format: PDF/Adobe Acrobat - View as HTML

... each doc- ument, determined by calculating the dominant **eigenvector** of a ... of citivity and citedness, to more-complex "PageRank," **authority**, and **hub** scores . ... skipper.gseis.ucla.edu/faculty/ jfurner/02-03/276/02isko.pdf - Similar pages [More results from skipper.gseis.ucla.edu]

#### [PDF]Modifications of Kleinberg's HITS Algorithm Using Matrix ...

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... and that the entries of the corresponding **eigenvector** are all ... middle-level node only a little less **authority** than the ... nodes except the root non-zero **hub** weight ... www.damtp.cam.ac.uk/user/jcm52/kleinbergposter.pdf - <u>Similar pages</u>

#### resiwww.damtp.cam.ac.uk/user/jcm52/kleinbergposter.ps

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... authority [resp. hub] weight formula in (1) converges to an eigenvector of the dominant eigenvalue of M. T. M [resp. MM. T. ]. ... Similar pages

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# [РРТ]Authoritative Sources in a Hyperlinked Environment

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... {x(p) } is a vector x with **authority** weight for each ... {y(p) } is a vector y with **hub** weight for ... **eigenvector**, and all other i(M) as non-principal **eigenvector**. ... external.nj.nec.com/homepages/ingemar/ course/presentations/1015-1.ppt - <u>Similar pages</u>

# [PPT]Presentation of Anatomy of a Large-Scale Hypertextual Web Search ...

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... solution of ai(t+1) and hi(t+1) gives us the principal eigenvectors of the authority and hub matrices. ... p>: be original PR scores (= 1st eigenvector). ... www.ics.uci.edu/~scott/linkanalysis\_stability.ppt - Similar pages

#### [PPT]Chapter 6: Beyond Keywords

File Format: Microsoft Powerpoint 97 - View as HTML

... Hence, a site's **authority** weight is proportional to the sum. of the **hub-**weights of the sites pointing at it. ... A Converges to the principal **eigenvector** of. ... www.ics.uci.edu/~pazzani/chapter6.ppt - <u>Similar pages</u>
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## [PDF]Automatic extraction of synonyms in a dictionary 1 Introduction 2 ...

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... vertices pointed by i and, similarly, the **authority** scores of ... equal to the sum of the **hub** scores of ... 2 ) converges to the normalized principal **eigenvector** of M ... www.inma.ucl.ac.be/~blondel/publications/02BS-syn.pdf -  $\underline{\text{Similar pages}}$ 

# [PDF]Similarity in graphs

File Format: PDF/Adobe Acrobat - View as HTML

... Normalized **hub** scores z 1k = x 1k / x 1k converge to the dominant **eigenvector** of AA T . Normalized **authority** scores z 2k = x 2k / x 2k converge to the ... www.inma.ucl.ac.be/~blondel/talks/02pai.pdf - <u>Similar pages</u> [ <u>More results from www.inma.ucl.ac.be</u> ]

# [PPT]The Search Problem

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... For a web site p let h(p) be its hub weight and a(p) be its authority weight. ... HITS. In other words, a is an eigenvector of B: ...



www.cs.huji.ac.il/~sdbi/2001/LinkAnalysis/ LinkAnalysis.ppt - Similar pages

#### [PS]www.cs.huji.ac.il/~dbi/2002/Lectures/ps/hubs.ps

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... the hub weights ~y. ... and authority weights ~x. ... Finding Multiple Communities The Iterative

Algorithm finds the principal eigenvector (ie, the one with the largest ...

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#### [PDF]Outline Outline

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... to the principal eigenvector of the normalized link matrix of the Web. ... Each page

is initialized with a non-negative authority weight and hub weight. ...

www.cse.lehigh.edu/~brian/course/searchengines/ notes/notes-10-31.pdf - Similar pages

#### [PDF]Lecture 9: I: Web Retrieval II: Webology Johan Bollen

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... links to authorities (b) Recursive definitions i. Relations to Bonacich or eigenvector

centrality ii. ... jbollen@cs.odu.edu Authority and Hub scores Authority ...

www.cs.odu.edu/~jbollen/spring03\_IR/cs695\_lect9.pdf - Similar pages

### [PPT]Intelligent Information Retrieval and Web Search

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... adjacency matrix for the subgraph defined by S. Aij = 1 for i S, j S iff

i j. Authority vector, a, converges to the principal eigenvector of ATA. Hub ...

www.cs.utexas.edu/users/mooney/ir-course/ slides/LinkAnalysis.ppt - Similar pages

#### [PS]www.cs.utexas.edu/users/inderjit/Datamining/lecture4.ps

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... We prove that the hub and authority vectors converge to ... T. and A. T. A have identical

non-zero eigenvalues. Further, if q is an eigenvector of AA. T. then A. T. ...

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#### [PDF]PageRank, HITS and a Unified Framework for Link Analysis

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... The **hub** scores are obtained through y = O op (y), (3.6) where O op is defined as

O op ... Authority scores are con-tained in the principal eigenvector of A (O ...

www.siam.org/meetings/sdm03/proceedings/sdm03\_24.pdf - Similar pages

# [PS]www.cs.tau.ac.il/~fiat/DataMine02/Datamining3.ps

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... q) = 1 () p ! q Now, if we mark the Authority of all the nodes as a vector ~a, and

the Hub as vector ... a =kMTM~ak ~a Meaning that ~a is an eigenvector of MTM ...

Similar pages

#### [PS]algo.fmi.uni-passau.de/~brandes/publications/bc-vrls-01.ps.gz

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... In this formulation, it is easy to see that the hub and authority indices in a

graph with adjacency matrix A correspond to eigenvector centrality in the ... Similar pages

### [PDF]Visualization of Bibliographic Networks with a Reshaped Landscape ...

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... The hub index, h(G) = h = (hv) vV, and the authority index, a(G... Hubs

& authorities are thus eigenvector centralities in the weighted undirected ...

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# [PDF]Authoritative Sources in a Hyperlinked Environment

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... Showed before can use principal eigenvector to calculate ... authority is passed directly

from authorities to other ... without interposing a notion of **hub** pages. ... homepages.inf.ed.ac.uk/s0231689/Authoritative.PDF - <u>Similar pages</u>

#### [PDF]Link-based Approaches for Text Retrieval

File Format: PDF/Adobe Acrobat - View as HTML

... to work on (because the fixed-point algorithm converges to the principal **eigenvector** of a ... The **authority** value is then computed by summing up **hub** values of ... www.doc.ic.ac.uk/~srueger/www-pub/lbaftr-trec-2001.pdf - <u>Similar pages</u>

#### (PPT)Web Graph Analysis

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... Observation: c is the eigenvalue of A, R is the eigenvector of A. ... Given a page

p, define x be its authority weight, define y be its hub weight, ....

www.neci.nec.com/~giles/course/presentations/choi.ppt - Similar pages

#### [PS]www.neci.nec.com/homepages/flake/kdd2000.ps

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... A hub site links to many authority sites and an authority site is linked to by many. ... nents of the dominant eigenvector will have positive components ... Similar pages

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# [PPT]Classical Models of Information Retrieval

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... Let W denote the **adjacency** matrix of the ... h converges to the principal **eigenvector** of WTW. ... The **authority[hub]** weights correspond to the stationary distribution ... cs.haifa.ac.il/courses/infor/Slides/WebIR2.ppt - <u>Similar pages</u>

#### [PDF]CS276A

File Format: PDF/Adobe Acrobat - View as HTML

... Page 19. 19 **Hub/authority** vectors View the **hub** scores h() and the **authority** scores a() as ... Thus, h is an **eigenvector** of AA t and a is an **eigenvector** of A t A . ... www.stanford.edu/class/cs276a/handouts/lecture12.pdf - Similar pages

#### [PPT]CS347

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... 1 0 0. **Hub/authority** vectors. View the **hub** scores h() and the **authority** scores a() as vectors with n components. ... Thus, h is an **eigenvector** of AAt and. ... www.stanford.edu/class/cs276a/handouts/lecture12.ppt - <u>Similar pages</u>

#### [PDF]Notes on Kleinberg's Algorithm and PageRank

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... which point we pick out the pages with the highest **hub** and **authority** scores. ... zero, the function converges to a multiple of w 1, the principle **eigenvector**. ... www.eecs.harvard.edu/~michaelm/E126/klein.pdf - Similar pages

#### [PS]www.eecs.harvard.edu/~michaelm/E126/klein.ps

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... at which point we pick out the pages with the highest **hub** and **authority** scores ... zero, the function converges to a multiple of w1, the principle **eigenvector**. ... <u>Similar pages</u>

#### [PS]www.almaden.ibm.com/cs/k53/algopapers/pods00graph.ps

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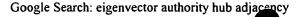
... retain the basic power iteration process and the interpretation of **hub** and **authority** scores as components of a principal **eigenvector**, as above. ... Similar pages

#### [PDF]Recherche automatique de synonymes dans un dictionnaire

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Page 1. Recherche automatique de synonymes dans un dictionnaire Vincent

D. Blondel F'evrier 2003 Page 2. Essayez avec cette orthographe ...



cental.fltr.ucl.ac.be/seminaire2002-03/ blondeltransp.pdf - Similar pages

#### [PPT]Link Structure Analyzes Approach

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... H Converges to the principal eigenvector of. Kleinberg algorithm. ... In our walk we will travel from hub to hub or from authority to authority. ... www.cs.technion.ac.il/~tzach/www-lab/slides.ppt - Similar pages

# [PDF]Rank-Stability and Rank-Similarity of Link-Based Web Ranking ...

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... the authority weights and the hub weights ... Pages are ranked according to their authority weights, which ... coordinates of the normalized principal eigenvector 5 of ... www.cs.technion.ac.il/~moran/ r/PS/stab\_journal31-1-03.pdf - Similar pages
[More results from www.cs.technion.ac.il]

# [PDF]Extraction of information in large graphs Automatic search for ...

File Format: PDF/Adobe Acrobat - View as HTML

... of A T A and AA T give respectively the **authority** weights and **hub** weights of the ... Then, the normalized principal **eigenvector** X of C gives the "similarity ... www.eleves.ens.fr/home/senellar/ stage\_maitrise/presentation.pdf - <u>Similar pages</u>

#### [PS]www.eleves.ens.fr/home/senellar/stage maitrise/rapport.ps

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... Vertices with highest **authority** weights are best authorities ... graph; vertices with highest **hub** weights are best ... corresponding to the principal **eigenvector** of the ... <u>Similar pages</u>

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#### [PS]www.ibiblio.org/mefron/research/papers/attractors.ps

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... P times itself repeatedly converges onto a matrix Q, whose columns are identical, each being an **eigenvector** of P ... Deriving the **hub** and **authority** scores from ... Similar pages

## PicASHOW: Pictorial Authority Search by Hyperlinks on the Web

... this algorithm converges, and that the resulting authority weights [hub weights] are the coordinates of the normalized principal eigenvector 2 of W ... www.www10.org/cdrom/papers/289/ - 87k - Cached - Similar pages

#### [PDF]Stability of HITS and PageRank

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... power method of obtaining the first **eigenvector** of matrices ... odd time steps corresponds to the **authority** weights, and even time steps to the **hub** weights An ... www.cis.hut.fi/Opinnot/T-122.102/stability.pdf - <u>Similar pages</u>

#### **IPPTI**Measurement

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... PageRank is the dominant eigenvector of the probability ... high authority score relevant content. high hub score links to documents with relevant ... www.cs.umd.edu/~qinglu/link-analysis.ppt - Similar pages

# [PDF]Microsoft PowerPoint - Lecture25

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... PageRank is the dominant eigenvector of the ... and an authority score for each document

\* high authority score relevant content \* high hub score links ...

www.cs.umd.edu/~getoor/cmsc828G/ Lectures/lecture25-handouts.pdf - <u>Similar pages</u> [ <u>More results from www.cs.umd.edu</u> ]

# [PPT]Finding Websites Chris Homan Compaq Systems Research Center

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... xn converges to the principle eigenvector of ATA, and. yn converges to the principle eigenvector of AAT. ... HTML. Document. HTML. Document. HTML. Document. Authority. Hub. ...

5 of 11 6/27/03 1:18 PM

www.cs.rochester.edu/u/choman/theorygroup.ppt - Similar pages

# [Ps]www.cs.bu.edu/~steng/teaching/Fall2002/notes/lec6/lec6.ps

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... where A is the **adjacency** matrix ... hubs and authorities into an eigenvalue-eigenvector problem ... indicate the strength of the corresponding **authority** (hub) weights of ... Similar pages

#### [PPT]Multimedia Databases

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... hub/authority scores: strongest left- and right- eigenvectors of the adjacency matrix. ... state probabilities are given by the strongest eigenvector of the ... www.cs.bu.edu/faculty/gkollios/ada02/ LectNotes/multi-svdII.ppt - Similar pages
[More results from www.cs.bu.edu]

# [PS]www.cs.cmu.edu/afs/cs/project/pscico-guyb/294/class-notes/all/23.ps

File Format: Adobe PostScript - View as Text

... P. y[q. i. ]. Figure 150: Calculating the **hub** weight and **authority** weight of a page p. 269. ... T. A and AA. T. . Each **eigenvector** corresponds to one community. ... Similar pages

#### [PS]www.cs.cmu.edu/afs/cs/project/pscico-guyb/294/class-notes/all/24.ps

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 $\dots$  2. i. . Similarly, each column of U is an **eigenvector** of AA. T.  $\dots$  principal **hub**". An "**authority**" is a page that is pointed to by multiple relevant hubs.  $\dots$  <u>Similar pages</u>

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# [PPT]An Empirical Validation of Software Cost Estimation Models

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... Authority and hub weight vectors. X=(X1,X2,...,Xn) / Y=(Y1,Y2,...,Yn). ... The sequence of iterates from vector X converges to the principle eigenvector of ATA. ... www.comp.nus.edu.sg/~liub/Teach/ cs6203/group5 slide.ppt - Similar pages

#### IPDF1arXiv:cs.IR/0212045 v1 16 Dec 2002

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... Then, it can be shown that, the **authority** and **hub** arrays, a and h, converge to the principal **eigenvector** of A T A and AA T respectively. ... arxiv.org/pdf/cs.IR/0212045 - <u>Similar pages</u>

#### [PPT]<u>???</u>

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... Let h(x), a(x) be hub/auth score of ... principle eigenvector of WW' a is principle eigenvector of W ... result, IE download page becomes an authority for everything! ... www.cse.ucsc.edu/classes/cmps290g/ Winter03/link-ranking-II.ppt -  $\underline{Similar\ pages}$ 

#### Untitled

... HITS, and SALSA algorithms, the uniqueness of the PageRank eigenvector, and the ... structure of a network of web pages to assign authority and hub weights to ... www.math.hmc.edu/faculty/ward/abstracts.html - 13k - Cached - Similar pages

# [PDF]Talk #7: Graphs and Networks II

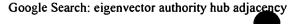
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... The positive and negative components of each **eigenvector** give a prospective pair ... 2 Brian Dean, 1999 web is assigned a **hub** score h i and an **authority** score a ... www.geocities.com/eford/science/LQN/talk7.pdf - <u>Similar pages</u>

#### [PDF]PicASHOW: Pictorial Authority Search by Hyperlinks On the Web

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... of multiplying the vector of all **authority** weights by ... that the resulting au- thority weights [hub weights] are ... of the normalized principal **eigenvector** 13 of W ... delivery.acm.org/10.1145/510000/503105/ p1-lempel.pdf?key1=503105&key2=2862888301&coll=GUIDE&d... - <u>Similar</u>



#### pages

#### [PDF]Stable Algorithms for Link Analysis

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... determines authorities by computing the principal eigenvector of the ... that an article has high "authority" weight if ... and that a page has high hub weight if ...

delivery.acm.org/10.1145/390000/384003/

p258-ng.pdf?key1=384003&key2=4679909301&coll=GUIDE&dl=... - Similar pages

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## [PDF]Analysis and Improvement of HITS Algorithm for Detecting Web ...

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... 4: Make the Ò by Ò adjacency matrix and ... absolute values in the nor- malized principal eigenvector ½ . ... nodes) hubs (blue colord nodes) authority hub Edit Box ... www.lab7.kuis.kyoto-u.ac.jp/publications/ 02/saeko-saint2002.pdf - Similar pages

#### Citations: Inferring Web communities from link topology - ...

... Each non principal eigenvector de nes two communities, one with non negative values ... 6)

2.1 Co citation and co reference The **authority** and **hub** matrices have ... citeseer.nj.nec.com/context/853227/36254 - 39k - Cached - Similar pages

esecting.nee.com/context/000254 - osk - osk-oskned - osknidi pages

#### Citations: Experiments in topic distillation - Chakrabarti, Dom, ...

... that HITS computes the principal **eigenvector** of the ... AA T , where A is the **adjacency** matrix of ... practice, the relative ordering of **hub authority** scores becomes ... citeseer.nj.nec.com/context/636588/0 - 28k - <u>Cached</u> - <u>Similar pages</u>
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#### rppriSearching the Web

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... repeatedly with A T until it converges to the principal **eigenvector** s = random ... to and, B(i) pages pointing to i • Compute **authority** score a i , **hub** score h ... www.ced.tuc.gr/~petrakis/courses/multimedia/web.pdf - Similar pages

# **Connectivity Review**

... In addition, the positive and negative ends of a non-principal **eigenvector** exhibit a ... This issue was dealt with by dividing the **hub** and **authority** weights by ... dev.panopticsearch.com/connectivity-review.html - 27k - Cached - Similar pages

#### [PS]Link Analysis: Hubs and Authorities on the World Wide Web

File Format: Adobe PostScript - View as Text

... k. have large overlap with the negative region of another eigenvector u.

..... they are ranked very high in both authority list and hub list. ...

Description: A survey on Kleimberg's Hits. [PS format]

Category: Computers > Software > ... > Ranking > By Context

www.nersc.gov/research/SCG/cding/papers\_ps/hits3.ps - Similar pages

#### [PS]www.nersc.gov/research/SCG/cding/papers ps/autotopic.ps

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... for eigenvector f with the second smallest eigen- value. ... The authority and hub information can be extracted based entirely on the link structure. ... Similar pages

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#### [PS]www.acm.org/sigmod/pods/proc99/papers/kleinber.ps

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... M nu0 converges toan **eigenvector** associated with with. ... Thus, the limiting vectors of **hub** and **authority** weightsare eigenvectors of. ... Similar pages

#### [poc]Microsoft/China talk

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... that this process is equivalent to finding the major eigenvector of the ... In his setting,

a web page may be an authority on a subject or a hub, a page that ... www.microsoft.com/china/research/dload\_files/ 21century/3\_john\_hopcroft.doc - Similar pages

#### respwww.cse.psu.edu/~zha/papers/ha.ps

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... k. have large overlap with the negative region of another **eigenvector** u. `. . This happens for. ... they are ranked very high in both **authority** list and **hub** list. ... Similar pages

# [PS]www.cse.psu.edu/~zha/papers/ieee.ps

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... for **eigenvector** f with the second smallest eigenvalue. ... The **authority** and **hub** information can be extracted based entirely on the link structure. ... Similar pages

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#### [PS]www.di.unipi.it/didadoc/asw/grossidir/salsa.ps.gz

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... it on the next entry to the **authority(hub)** side of ... The **adjacency** matrix of the support graph of A~ is ... the sites whose entries in the principal **eigenvector** of A ... <u>Similar pages</u>

#### [PS]www.cs.cornell.edu/home/kleinber/ieee99.ps

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... In fact, power iteration will converge to the principal **eigenvector** for any "non-degenerate" choice of ... This says that the **hub** and **authority** weights we ... Similar pages

#### **IPDFJAutomatic Topic Discovery from Hyperlinked Text**

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... the **Hub** and **Hub** = A Auth , the **authority** scores of ... A T A , and the **hub** scores (ie **Hub**) are correspondent to the principal **eigenvector** of matrix ... www.bohr.idv.tw/pdf/H050.pdf - Similar pages

#### rppriMining the Web's Link Structure

File Format: PDF/Adobe Acrobat - View as HTML

... As before, the **hub** and **authority** scores converge to ... after about five power iterations, obviating the need for more sophisticated **eigenvector** computation ... www-courses.cs.uiuc.edu/~cs497jh/papers/chak99.pdf - <u>Similar pages</u>

#### [PS]www.inf.uni-konstanz.de/Schriften/papers/2002/preprint-170.ps

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... The **hub** index, h(G) = h = (hv)v2V, and the **authority** index, a(G) = a ... Hubs & authorities are thus **eigenvector** centrali-ties in the weighted undirected graphs ... <u>Similar pages</u>

# [PDF]Visualization of Bibliographic Networks with a Reshaped Landscape ...

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... The **hub** index, h(G) = h = (h v) vV, and the **authority** index, a(G ... Hubs & authorities are thus**eigenvector**centrali- ties in the weighted undirected graphs ... www.inf.uni-konstanz.de/Schriften/ papers/2002/preprint-170.pdf - Similar pages [More results from www.inf.uni-konstanz.de]

#### **IPPTICHAPTER 1: INTRODUCTION**

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... q1. q2. q3. p1. p2. **Authority** and **Hub** Pages (12): After 2 Iterations: ... So we converge finally to the direction of principal **eigenvector**. ... rakaposhi.eas.asu.edu/cse494/notes/web-search-f02.ppt - <u>Similar pages</u>

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about non-principal eigen vectors? ... Authority and Hub Pages (15): ... rakaposhi.eas.asu.edu/cse494/notes/web-search.ppt - Similar pages [More results from rakaposhi.eas.asu.edu]

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... Both of these algorithms use **eigenvector** calculations to assign "au ... posits that an article has high "**authority**" weight if ... and that a page has high **hub** weight if ... www.robotics.stanford.edu/~ang/papers/ ijcai01-linkanalysis.pdf - <u>Similar pages</u>

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#### The Stochastic Approach for Link-Structure Analysis (SALSA) and ...

... it on the next entry to the **authority(hub)** side of ... The **adjacency** matrix of the support graph of  $\tilde{A}$  is ... sites whose entries in the principal **eigenvector** of  $\tilde{A}$  ... www9.org/w9cdrom/175/175.html - 91k - <u>Cached</u> - <u>Similar pages</u>

## What is this Page Known for? Computing Web Page Reputations

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... If the ranks converge, ie, there is a rank vector R such that R = M R, R is the eigenvector of matrix M with eigenvalue ... Authority and Hub Pages (15): ... opal.cs.binghamton.edu/~meng/cs534.d/searchens.ppt - Similar pages

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... reinforce each other, a good t-hub must point ... t-authorities, and a good t-authority must be ... Hubs ranks = normalized principle eigenvector of (WWt) Authorities ...



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... are made symmetric and the ranks given as the eigenvector of (A + A. ... The hub vectors

in turn can be similarly calculated using the authority vector a. ...

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... principal eigenvector of AAT corresponds to its hub weight, while its component in

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... The eigenvector of this matrix illustrates the clusteredness of the

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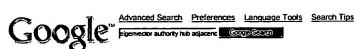
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... ric matrices derived from the (asymmetric) adjacency matrix of ... For a pair of authority/hub

weight vec- tors (z ... Let oJi(M) denote the elgenvector associated with

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authority is passed ... authorities, without interposing a notion of hub pages ...

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... better authority pages come from incoming edges from good ... use the updated hub information

to refine the ... eventually converge to the principle elgenvector of the ...

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... with the given matrix [31] until it converges to the principal elgenvector. ... scores (ie, (0.408)2 + (0.816)2 + (0.408)2 . The hub and authority values have ... dbpubs.stanford.edu/pub/2000-37 - 101k - Jun 26, 2003 - Cached - Similar pages

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Web Mining: Escaping the Natural Language Understanding problems ...
... Let x\* and y\* be vectors containing authority and hub scores for pages ... Kleinberg shows

in [3] that x\* is the principal eigenvector of A T A, and y\* is the . www.atra.com.pl/~michalo/webmining/webmining.htm - 93k - Cached - Similar pages

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3 The Large-Scale Structure of Semantic Networks: Statistical

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37 3.10 A Two Dimensional Plot of Terms and Documents .

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